

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Page: 306
Report Date:04/29/2009

Study Summary

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Battelle Columbus Laboratory	059902805	09/16/02	729	50 (1)	21(676)	506.2	bis(2-Chloroethoxy)methane
Battelle Columbus Laboratory	059700307	07/10/02	728	50 (1)	25(680)	510.4	1,2-Dibromo-2,4-dicyanobutane
Southern Research Institute	059302007	04/24/00	729	50 (1)	20(670)	484.2	Diisopropylcarbodiimide
Female							
Battelle Columbus Laboratory	059902805	09/17/02	730	50 (1)	19(646)	341.0	bis(2-Chloroethoxy)methane
Battelle Columbus Laboratory	059700307	07/11/02	729	50 (1)	29(695)	337.8	1,2-Dibromo-2,4-dicyanobutane
Southern Research Institute	059302007	04/24/00	731	50 (1)	30(672)	319.5	Diisopropylcarbodiimide

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

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Male												Female					
#All Organs: Benign Tumors																	
Overall Incidence	Total	49/50	(98%)	46/50	(92%)	47/50	(94%)	Total	37/50	(74%)	46/50	(92%)	44/50	(88%)			
		142/150	(94.67%)	Mean	94.67%	SD	3.06%		127/150	(84.67%)	Mean	84.67%	SD	9.45%			
.....																	
#All Organs: Malignant Tumors																	
Overall Incidence	Total	26/50	(52%)	23/50	(46%)	34/50	(68%)	Total	19/50	(38%)	15/50	(30%)	22/50	(44%)			
		83/150	(55.33%)	Mean	55.33%	SD	11.37%		56/150	(37.33%)	Mean	37.33%	SD	7.02%			
.....																	
#All Organs: Malignant and Benign Tumors																	
Overall Incidence	Total	49/50	(98%)	50/50	(100%)	50/50	(100%)	Total	44/50	(88%)	48/50	(96%)	48/50	(96%)			
		149/150	(99.33%)	Mean	99.33%	SD	1.15%		140/150	(93.33%)	Mean	93.33%	SD	4.62%			
.....																	
#All Organs: Hemangioma																	
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%			
.....																	
#All Organs: Hemangiosarcoma																	
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%			
.....																	
#All Organs: Hemangiosarcoma or Hemangioma																	
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%			
.....																	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

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Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
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		Male						Female						
#All Organs: Histiocytic Sarcoma														
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#All Organs: Leukemia: Erythrocytic														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#All Organs: Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated														
Overall Incidence	Total	17/50	(34%)	17/50	(34%)	13/50	(26%)	Total	12/50	(24%)	10/50	(20%)	9/50	(18%)
		47/150	(31.33%)	Mean	31.33%	SD	4.62%		31/150	(20.67%)	Mean	20.67%	SD	3.06%
.....														
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	2/50	(4%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		2/150	(1.33%)	Mean	1.33%	SD	2.31%		0/150	(0%)	Mean	0%	SD	0%
.....														
#All Organs: Mesothelioma: Benign														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
#All Organs: Mesothelioma: Benign, Malignant, NOS														
Overall Incidence	Total	2/50	(4%)	1/50	(2%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		4/150	(2.67%)	Mean	2.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														

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#: Denominator is number of animals necropsied

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Strain: F344
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Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Male								Female							
#All Organs: Mesothelioma: Malignant															
Overall Incidence	Total	2/50	(4%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		3/150	(2%)	Mean	2%	SD	2%		0/150	(0%)	Mean	0%	SD	0%	
#All Organs: Osteoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
#All Organs: Osteosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
#All Organs: Osteosarcoma or Osteoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
*Adrenal Cortex: Adenoma															
Overall Incidence	Total	0/50	(0%)	3/50	(6%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	3/50	(6%)	
		3/150	(2%)	Mean	2%	SD	3.46%		3/150	(2%)	Mean	2%	SD	3.46%	
*Adrenal Cortex: Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	

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Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
*Adrenal Medulla: Ganglioneuroma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/149	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla: Hemangioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/149	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla: Pheochromocytoma Benign															
Overall Incidence	Total	3/50	(6%)	5/50	(10%)	3/50	(6%)	Total	1/50	(2%)	1/50	(2%)	0/49	(0%)	
		11/150	(7.33%)	Mean	7.33%	SD	2.31%		2/149	(1.34%)	Mean	1.33%	SD	1.15%	
.....															
*Adrenal Medulla: Pheochromocytoma Complex															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/149	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla: Pheochromocytoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	4/50	(8%)	Total	0/50	(0%)	0/50	(0%)	0/49	(0%)	
		4/150	(2.67%)	Mean	2.67%	SD	4.62%		0/149	(0%)	Mean	0%	SD	0%	
.....															
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS															
Overall Incidence	Total	3/50	(6%)	5/50	(10%)	6/50	(12%)	Total	1/50	(2%)	1/50	(2%)	0/49	(0%)	
		14/150	(9.33%)	Mean	9.33%	SD	3.06%		2/149	(1.34%)	Mean	1.33%	SD	1.15%	
.....															

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Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male							Female							
#Bone: Chondrosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Chondrosarcoma or Chondroma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Chordoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Osteoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Osteosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Bone: Osteosarcoma or Osteoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

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Version: May2009
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Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
*Brain:															
Astrocytoma Malignant															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Ependymoma Benign															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Ependymoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Glioma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Granular Cell Tumor Benign															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Medulloblastoma Mal															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

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Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
*Brain:															
Meningioma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Meningioma: Benign, Malignant, NOS															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Oligodendroglioma Benign															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Brain:															
Oligodendroglioma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
*Brain:															
Oligodendroglioma, Glioma, or Astrocytoma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
*Brain:															
Osteosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

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Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Male								Female							
*Brain:															
Schwannoma Malignant															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
*Clitoral/Preputial Gland:															
Adenoma															
Overall Incidence	Total	2/50	(4%)	2/50	(4%)	1/50	(2%)	Total	2/50	(4%)	6/50	(12%)	2/50	(4%)	
		5/150	(3.33%)	Mean	3.33%	SD	1.15%		10/150	(6.67%)	Mean	6.67%	SD	4.62%	
*Clitoral/Preputial Gland:															
Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	2/50	(4%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	2.31%	
*Clitoral/Preputial Gland:															
Carcinoma or Adenoma															
Overall Incidence	Total	2/50	(4%)	2/50	(4%)	2/50	(4%)	Total	2/50	(4%)	6/50	(12%)	4/50	(8%)	
		6/150	(4%)	Mean	4%	SD	0%		12/150	(8%)	Mean	8%	SD	4%	
*Clitoral/Preputial Gland:															
Fibrosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
*Clitoral/Preputial Gland:															
Sarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

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Route: SKIN
Vehicle: ETHANOL

		Male						Female						
*Clitoral/Preputial Gland: Squamous Cell Papilloma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Ear: Neural Crest Tumor														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Esophagus: Fibrosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Esophagus: Lipoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Eye: Amelanotic Melanoma, Benign														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Eye: Melanoma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male							Female							
#Eye: Schwannoma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Harderian Gland: Carcinoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Harderian Gland: Carcinoma or Adenoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Heart: Schwannoma Benign														
Overall Incidence	Total	2/50	(4%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		2/150	(1.33%)	Mean	1.33%	SD	2.31%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Heart: Schwannoma Malignant														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Intestine Large: Colon/Rectum: Adenoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	1/50	(2%)	1/50	(2%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	1.15%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male								Female							
#Intestine Large: Colon/Rectum: Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Large: Colon/Rectum: Carcinoma or Adenoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	1/50	(2%)	1/50	(2%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	1.15%	
.....															
#Intestine Large: Colon/Rectum: Hemangioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Duodenum: Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Duodenum: Leiomyoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Jejunum: Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
#Intestine Small: Jejunum: Granular Cell Tumor Malignant															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Jejunum: Leiomyoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Jejunum: Leiomyosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Site Unspecified: Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Site Unspecified: Carcinoma or Adenoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Intestine Small: Site Unspecified: Granular Cell Tumor Malignant															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male						Female								
#Intestine Small: Site Unspecified: Leiomyoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
#Intestine Small: Site Unspecified: Leiomyosarcoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
*Islets, Pancreatic: Adenoma														
Overall Incidence	Total	3/50 14/150	(6%) (9.33%)	6/50 Mean	(12%) 9.33%	5/50 SD	(10%) 3.06%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
*Islets, Pancreatic: Carcinoma														
Overall Incidence	Total	0/50 2/150	(0%) (1.33%)	0/50 Mean	(0%) 1.33%	2/50 SD	(4%) 2.31%	Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%
*Islets, Pancreatic: Carcinoma or Adenoma														
Overall Incidence	Total	3/50 16/150	(6%) (10.67%)	6/50 Mean	(12%) 10.67%	7/50 SD	(14%) 4.16%	Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%
*Kidney: Pelvis and Transitional Epithelium: Carcinoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

		Male						Female						
*Kidney: Pelvis and Transitional Epithelium: Carcinoma or Adenoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Kidney: Pelvis and Transitional Epithelium: Papilloma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Kidney: Renal Tubule: Adenoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Kidney: Renal Tubule: Carcinoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Kidney: Renal Tubule: Carcinoma or Adenoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Kidney: Renal Tubule: Hemangiosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
*Kidney: Renal Tubule: Lipoma															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Mesenchymal Tumor Benign															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Nephroblastoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Kidney: Renal Tubule: Sarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
*Liver: Cholangioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Liver: Hemangiosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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		Male						Female						
*Liver:														
Hepatocellular Adenoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	6/50	(12%)
		0/150	(0%)	Mean	0%	SD	0%		6/150	(4%)	Mean	4%	SD	6.93%
.....														
*Liver:														
Hepatocellular Carcinoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Liver:														
Hepatocellular Carcinoma or Hepatoblastoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Liver:														
Hepatocellular Carcinoma or Hepatocellular Adenoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	6/50	(12%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		6/150	(4%)	Mean	4%	SD	6.93%
.....														
*Liver:														
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	6/50	(12%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		6/150	(4%)	Mean	4%	SD	6.93%
.....														
*Lung:														
Alveolar/Bronchiolar Adenoma														
Overall Incidence	Total	4/50	(8%)	1/50	(2%)	1/50	(2%)	Total	0/50	(0%)	4/50	(8%)	0/50	(0%)
		6/150	(4%)	Mean	4%	SD	3.46%		4/150	(2.67%)	Mean	2.67%	SD	4.62%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male								Female							
*Lung: Alveolar/Bronchiolar Carcinoma															
		1/50	(2%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	1/50	(2%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma															
		5/50	(10%)	2/50	(4%)	1/50	(2%)			0/50	(0%)	4/50	(8%)	0/50	(0%)
Overall Incidence	Total	8/150	(5.33%)	Mean	5.33%	SD	4.16%	Total	4/150	(2.67%)	Mean	2.67%	SD	4.62%	
.....															
*Lung: Fibrosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Hemangiosarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
*Lung: Squamous Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male						Female								
#Lymph Node: Hemangiosarcoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Mammary Gland: Adenolipoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Mammary Gland: Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%
.....														
#Mammary Gland: Carcinoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	1/50 7/150	(2%) (4.67%)	2/50 Mean	(4%) 4.67%	4/50 SD	(8%) 3.06%
.....														
#Mammary Gland: Carcinoma or Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	1/50 8/150	(2%) (5.33%)	3/50 Mean	(6%) 5.33%	4/50 SD	(8%) 3.06%
.....														
#Mammary Gland: Fibroadenoma														
Overall Incidence	Total	3/50 4/150	(6%) (2.67%)	1/50 Mean	(2%) 2.67%	0/50 SD	(0%) 3.06%	Total	16/50 42/150	(32%) (28%)	14/50 Mean	(28%) 28%	12/50 SD	(24%) 4%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Male								Female							
#Mammary Gland: Fibroma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
#Mammary Gland: Fibroma, Fibroadenoma or Adenoma															
Overall Incidence	Total	3/50	(6%)	1/50	(2%)	0/50	(0%)	Total	16/50	(32%)	15/50	(30%)	12/50	(24%)	
		4/150	(2.67%)	Mean	2.67%	SD	3.06%		43/150	(28.67%)	Mean	28.67%	SD	4.16%	
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma															
Overall Incidence	Total	3/50	(6%)	1/50	(2%)	0/50	(0%)	Total	17/50	(34%)	17/50	(34%)	14/50	(28%)	
		4/150	(2.67%)	Mean	2.67%	SD	3.06%		48/150	(32%)	Mean	32%	SD	3.46%	
#Mesentery: Fibrosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
#Mesentery: Hemangiosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
#Mesentery: Lipoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Male						Female								
#Mesentery: Rhabdomyosarcoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Nose: Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/49 0/149	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Nose: Chondroma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/49 0/149	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Nose: Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%	Total	0/49 0/149	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Papilloma Squamous or Papilloma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	1/50 3/150	(2%) (2%)	0/50 Mean	(0%) 2%	2/50 SD	(4%) 2%
.....														
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 1/150	(0%) (0.67%)	0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male										Female									
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva): Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma																			
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	3/50	(6%)					
		0/150	(0%)	Mean	0%	SD	0%		4/150	(2.67%)	Mean	2.67%	SD	3.06%					
.....																			
#Oral Mucosa: Squamous Cell Carcinoma																			
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)					
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%					
.....																			
#Oral Mucosa: Squamous Cell Papilloma																			
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)					
		0/150	(0%)	Mean	0%	SD	0%		1/150	(0.67%)	Mean	0.67%	SD	1.15%					
.....																			
*Ovary: Cystadenoma																			
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%					
.....																			
*Ovary: Granulosa Cell Tumor Benign																			
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)					
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%					
.....																			
*Ovary: Granulosa Cell Tumor Malignant																			
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)					
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%					
.....																			

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male					Female						
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS											
Overall Incidence					Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%
*Ovary: Granulosa-Theca Tumor Benign											
Overall Incidence					Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
*Ovary: Granulosa-Theca Tumor Malignant											
Overall Incidence					Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
*Ovary: Tubulostromal Adenoma											
Overall Incidence					Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
*Pancreas: Adenoma											
Overall Incidence	Total	0/50 3/150	(0%) (2%)	0/50 Mean	(0%) 2%	3/50 SD	(6%) 3.46%	0/50 Total	(0%) 0/150	0/50 Mean	(0%) 0%
*Pancreas: Carcinoma											
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	0/50 Total	(0%) 0/150	0/50 Mean	(0%) 0%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
*Pancreas: Carcinoma or Adenoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	3/50	(6%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		3/150	(2%)	Mean	2%	SD	3.46%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Pancreas: Mixed Tumor Benign															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Pancreas: Mixed Tumor Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Parathyroid Gland: Adenoma															
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	0/49	(0%)	Total	0/43	(0%)	0/46	(0%)	0/45	(0%)	
		0/147	(0%)	Mean	0%	SD	0%		0/134	(0%)	Mean	0%	SD	0%	
.....															
#Peripheral Nerve: Schwannoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Peripheral Nerve: Schwannoma: Benign, Malignant, NOS															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male												Female					
*Pituitary Gland: Pars Distalis or Unspecified Site: Adenoma																	
Overall Incidence	Total	35/49	(71%)	32/50	(64%)	29/50	(58%)	Total	22/50	(44%)	35/50	(70%)	33/50	(66%)			
		96/149	(64.43%)	Mean	64.48%	SD	6.73%		90/150	(60%)	Mean	60%	SD	14%			
.....																	
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma																	
Overall Incidence	Total	0/49	(0%)	0/50	(0%)	5/50	(10%)	Total	0/50	(0%)	0/50	(0%)	3/50	(6%)			
		5/149	(3.36%)	Mean	3.33%	SD	5.77%		3/150	(2%)	Mean	2%	SD	3.46%			
.....																	
*Pituitary Gland: Pars Distalis or Unspecified Site: Carcinoma or Adenoma																	
Overall Incidence	Total	35/49	(71%)	32/50	(64%)	34/50	(68%)	Total	22/50	(44%)	35/50	(70%)	36/50	(72%)			
		101/149	(67.79%)	Mean	67.81%	SD	3.72%		93/150	(62%)	Mean	62%	SD	15.62%			
.....																	
*Pituitary Gland: Pars Distalis or Unspecified Site: Ganglioneuroma																	
Overall Incidence	Total	0/49	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/149	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%			
.....																	
*Pituitary Gland: Pars Intermedia: Adenoma																	
Overall Incidence	Total	0/49	(0%)	0/50	(0%)	2/50	(4%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)			
		2/149	(1.34%)	Mean	1.33%	SD	2.31%		1/150	(0.67%)	Mean	0.67%	SD	1.15%			
.....																	
*Pituitary Gland: Pars Intermedia: Carcinoma																	
Overall Incidence	Total	0/49	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/149	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%			

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

		Male						Female						
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma														
Overall Incidence	Total	0/49 3/149	(0%) (2.01%)	0/50 Mean	(0%) 2%	3/50 SD	(6%) 3.46%	Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%
.....														
*Prostate: Adenoma														
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%							
.....														
*Prostate: Carcinoma or Adenoma														
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%							
.....														
*Salivary Glands: Sarcoma														
Overall Incidence	Total	0/50 1/149	(0%) (0.67%)	0/50 Mean	(0%) 0.68%	1/49 SD	(2%) 1.18%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Seminal Vesicle: Adenoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%							
.....														
#Skeletal Muscle: Fibrous Histiocytoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male								Female							
#Skeletal Muscle: Hemangioma															
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
#Skeletal Muscle: Hemangiosarcoma															
Overall Incidence	Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
#Skeletal Muscle: Lipoma															
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma															
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%	
.....															
#Skeletal Muscle: Rhabdomyosarcoma or Rhabdomyoma															
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%	
.....															
#Skeletal Muscle: Sarcoma															
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)	0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male								Female							
#Skin: Basal Cell Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Basal Cell Adenoma or Basosquamous Tumor Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Basal Cell Carcinoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

		Male						Female						
#Skin: Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma														
		2/50	(4%)	2/50	(4%)	4/50	(8%)		0/50	(0%)	1/50	(2%)	1/50	(2%)
Overall Incidence	Total	8/150	(5.33%)	Mean	5.33%	SD	2.31%	Total	2/150	(1.33%)	Mean	1.33%	SD	1.15%
#Skin: Fibroma														
		1/50	(2%)	7/50	(14%)	5/50	(10%)		2/50	(4%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	13/150	(8.67%)	Mean	8.67%	SD	6.11%	Total	2/150	(1.33%)	Mean	1.33%	SD	2.31%
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma														
		3/50	(6%)	8/50	(16%)	5/50	(10%)		2/50	(4%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	16/150	(10.67%)	Mean	10.67%	SD	5.03%	Total	2/150	(1.33%)	Mean	1.33%	SD	2.31%
#Skin: Fibrosarcoma														
		2/50	(4%)	0/50	(0%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	2/150	(1.33%)	Mean	1.33%	SD	2.31%	Total	0/150	(0%)	Mean	0%	SD	0%
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma														
		2/50	(4%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	3/150	(2%)	Mean	2%	SD	2%	Total	0/150	(0%)	Mean	0%	SD	0%
#Skin: Fibrous Histiocytoma														
		0/50	(0%)	1/50	(2%)	0/50	(0%)		0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%

#: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male							Female							
#Skin: Hemangioma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Skin: Hemangiosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Skin: Keratoacanthoma														
Overall Incidence	Total	0/50	(0%)	2/50	(4%)	3/50	(6%)	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)
		5/150	(3.33%)	Mean	3.33%	SD	3.06%		1/150	(0.67%)	Mean	0.67%	SD	1.15%
.....														
#Skin: Lipoma														
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Skin: Liposarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Skin: Neural Crest Tumor														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
#Skin: Neural Crest Tumor, Malignant															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
#Skin: Neurofibroma or Schwannoma benign															
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)															
		1/50	(2%)	1/50	(2%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	2/50	(4%)
Overall Incidence	Total	4/150	(2.67%)	Mean	2.67%	SD	1.15%	Total	2/150	(1.33%)	Mean	1.33%	SD	2.31%	
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)															
		1/50	(2%)	2/50	(4%)	2/50	(4%)			0/50	(0%)	0/50	(0%)	2/50	(4%)
Overall Incidence	Total	5/150	(3.33%)	Mean	3.33%	SD	1.15%	Total	2/150	(1.33%)	Mean	1.33%	SD	2.31%	
#Skin: Sarcoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
#Skin: Schwannoma Benign															
		0/50	(0%)	1/50	(2%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
 Contract/Lab: All Laboratories
 Species: RATS
 Strain: F344
 Length of Study: CHRONIC

Toxicology Data Management System
 Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Male														Female					
#Skin:																			
Schwannoma Malignant																			
Overall Incidence	Total	1/50	(2%)	1/50	(2%)	2/50	(4%)	Total	0/50	(0%)	0/50	(0%)	2/50	(4%)					
		4/150	(2.67%)	Mean	2.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	2.31%					
.....																			
#Skin:																			
Squamous Cell Carcinoma																			
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)					
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%					
.....																			
#Skin:																			
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma																			
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)					
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%					
.....																			
#Skin:																			
Squamous Cell Papilloma																			
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)					
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%					
.....																			
#Skin:																			
Squamous Cell Papilloma or Papilloma																			
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)					
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%					
.....																			
#Skin:																			
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma																			
Overall Incidence	Total	1/50	(2%)	2/50	(4%)	4/50	(8%)	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)					
		7/150	(4.67%)	Mean	4.67%	SD	3.06%		2/150	(1.33%)	Mean	1.33%	SD	1.15%					

*: Denominator is number of animals with tissues examined microscopically
 #: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male								Female							
#Skin:															
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma															
		0/50	(0%)	2/50	(4%)	4/50	(8%)			0/50	(0%)	0/50	(0%)	1/50	(2%)
Overall Incidence	Total	6/150	(4%)	Mean	4%	SD	4%	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															
#Skin:															
Trichoepithelioma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Adenoma															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Carcinoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Skin: Sebaceous Gland:															
Carcinoma or Adenoma															
		0/50	(0%)	0/50	(0%)	1/50	(2%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															
#Spinal Cord:															
Astrocytoma Benign															
		0/50	(0%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	0/150	(0%)	Mean	0%	SD	0%	Total	0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male								Female							
#Spinal Cord: Astrocytoma Malignant															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Spinal Cord: Glioma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Fibrosarcoma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Fibrous Histiocytoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Hemangioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Hemangiosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male								Female							
*Spleen: Leiomyosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
*Spleen: Sarcoma															
Overall Incidence	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Forestomach: Leiomyosarcoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Forestomach: Squamous Cell Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Stomach, Forestomach: Squamous Cell Papilloma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male							Female							
#Stomach, Glandular: Lipoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Stomach, Glandular: Sarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Testes: Adenoma														
Overall Incidence	Total	30/50	(60%)	37/50	(74%)	36/50	(72%)	Total						
		103/150	(68.67%)	Mean	68.67%	SD	7.57%							
.....														
*Thymus: Sarcoma														
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	0/49	(0%)	Total	0/49	(0%)	0/45	(0%)	0/50	(0%)
		0/147	(0%)	Mean	0%	SD	0%		0/144	(0%)	Mean	0%	SD	0%
.....														
*Thymus: Thymoma Benign														
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	0/49	(0%)	Total	0/49	(0%)	0/45	(0%)	0/50	(0%)
		0/147	(0%)	Mean	0%	SD	0%		0/144	(0%)	Mean	0%	SD	0%
.....														
*Thymus: Thymoma Malignant														
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	0/49	(0%)	Total	0/49	(0%)	0/45	(0%)	0/50	(0%)
		0/147	(0%)	Mean	0%	SD	0%		0/144	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male										Female					
*Thymus: Thymoma NOS															
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	0/49	(0%)	Total	0/49	(0%)	0/45	(0%)	0/50	(0%)	
		0/147	(0%)	Mean	0%	SD	0%		0/144	(0%)	Mean	0%	SD	0%	
.....															
*Thymus: Thymoma: Benign, Malignant, NOS															
Overall Incidence	Total	0/49	(0%)	0/49	(0%)	0/49	(0%)	Total	0/49	(0%)	0/45	(0%)	0/50	(0%)	
		0/147	(0%)	Mean	0%	SD	0%		0/144	(0%)	Mean	0%	SD	0%	
.....															
*Thyroid Gland: C-Cell: Adenoma															
Overall Incidence	Total	10/50	(20%)	10/50	(20%)	5/50	(10%)	Total	6/50	(12%)	8/50	(16%)	3/50	(6%)	
		25/150	(16.67%)	Mean	16.67%	SD	5.77%		17/150	(11.33%)	Mean	11.33%	SD	5.03%	
.....															
*Thyroid Gland: C-Cell: Carcinoma															
Overall Incidence	Total	1/50	(2%)	2/50	(4%)	5/50	(10%)	Total	0/50	(0%)	0/50	(0%)	2/50	(4%)	
		8/150	(5.33%)	Mean	5.33%	SD	4.16%		2/150	(1.33%)	Mean	1.33%	SD	2.31%	
.....															
*Thyroid Gland: C-Cell: Carcinoma or Adenoma															
Overall Incidence	Total	11/50	(22%)	12/50	(24%)	10/50	(20%)	Total	6/50	(12%)	8/50	(16%)	5/50	(10%)	
		33/150	(22%)	Mean	22%	SD	2%		19/150	(12.67%)	Mean	12.67%	SD	3.06%	
.....															
*Thyroid Gland: Follicular Cell: Adenoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	1/50	(2%)	Total	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		1/150	(0.67%)	Mean	0.67%	SD	1.15%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male								Female							
*Thyroid Gland: Follicular Cell: Carcinoma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	0/50	(0%)	Total	1/50	(2%)	0/50	(0%)	1/50	(2%)	
		1/150	(0.67%)	Mean	0.67%	SD	1.15%		2/150	(1.33%)	Mean	1.33%	SD	1.15%	
.....															
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma															
Overall Incidence	Total	0/50	(0%)	1/50	(2%)	1/50	(2%)	Total	2/50	(4%)	0/50	(0%)	1/50	(2%)	
		2/150	(1.33%)	Mean	1.33%	SD	1.15%		3/150	(2%)	Mean	2%	SD	2%	
.....															
#Tissue NOS: Lipoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Paraganglioma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Tissue NOS: Schwannoma Malignant															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															
#Tongue: Squamous Cell Carcinoma															
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%	
.....															

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male						Female								
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 2/150	(0%) (1.33%)	0/50 Mean	(0%) 1.33%	2/50 SD	(4%) 2.31%
.....														
#Tongue: Squamous Cell Papilloma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 2/150	(0%) (1.33%)	0/50 Mean	(0%) 1.33%	2/50 SD	(4%) 2.31%
.....														
#Tooth: Adamantinoma Malignant														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
#Tooth: Odontoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 1/150	(0%) (0.67%)	1/50 Mean	(2%) 0.67%	0/50 SD	(0%) 1.15%
.....														
*Urinary Bladder: Carcinoma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														
*Urinary Bladder: Carcinoma or Papilloma														
Overall Incidence	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

Male							Female							
*Urinary Bladder: Hemangiosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder: Leiomyosarcoma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
*Urinary Bladder: Papilloma														
Overall Incidence	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)	Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)	Mean	0%	SD	0%		0/150	(0%)	Mean	0%	SD	0%
.....														
#Uterus: Adenoma														
Overall Incidence	Total	0/50	(0%)					Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)						0/150	(0%)	Mean	0%	SD	0%
.....														
#Uterus: Carcinoma														
Overall Incidence	Total	0/50	(0%)					Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)						0/150	(0%)	Mean	0%	SD	0%
.....														
#Uterus: Deciduoma Benign														
Overall Incidence	Total	0/50	(0%)					Total	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/150	(0%)						0/150	(0%)	Mean	0%	SD	0%
.....														

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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	Male				Female			
#Uterus: Hemangioma								
Overall Incidence	Total	0/50 0/150	(0%) (0%)		0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
#Uterus: Hemangiosarcoma								
Overall Incidence	Total	0/50 0/150	(0%) (0%)		0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
#Uterus: Leiomyoma								
Overall Incidence	Total	0/50 1/150	(0%) (0.67%)		0/50 Mean	(0%) 0.67%	1/50 SD	(2%) 1.15%
#Uterus: Leiomyosarcoma								
Overall Incidence	Total	0/50 0/150	(0%) (0%)		0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%
#Uterus: Polyp Stromal								
Overall Incidence	Total	5/50 17/150	(10%) (11.33%)		2/50 Mean	(4%) 11.33%	10/50 SD	(20%) 8.08%
#Uterus: Sarcoma Stromal								
Overall Incidence	Total	1/50 2/150	(2%) (1.33%)		1/50 Mean	(2%) 1.33%	0/50 SD	(0%) 1.15%

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male					Female				
#Uterus: Sarcoma Stromal or Polyp Stromal									
Overall Incidence		Total	6/50 19/150	(12%) (12.67%)	3/50 Mean	(6%) 12.67%	10/50 SD	(20%) 7.02%	
#Uterus: Schwannoma Malignant									
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
#Vagina: Polyp									
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
#Vagina: Sarcoma									
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	
#Zymbal's Gland: Adenoma									
Overall Incidence		Total	1/50 1/150	(2%) (0.67%)	0/50 Mean	(0%) 0.67%	0/50 SD	(0%) 1.15%	
#Zymbal's Gland: Carcinoma									
Overall Incidence		Total	0/50 0/150	(0%) (0%)	0/50 Mean	(0%) 0%	0/50 SD	(0%) 0%	

*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied

Version: May2009
Contract/Lab: All Laboratories
Species: RATS
Strain: F344
Length of Study: CHRONIC

Toxicology Data Management System
Tumor Incidence for Selected Control Animal Groups
Route: SKIN
Vehicle: ETHANOL

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Report Date:04/29/2009

Male										Female					
#Zymbal's Gland: Carcinoma or Adenoma															
		1/50	(2%)	0/50	(0%)	0/50	(0%)			0/50	(0%)	0/50	(0%)	0/50	(0%)
Overall Incidence	Total	1/150	(0.67%)	Mean	0.67%	SD	1.15%	Total	0/150	(0%)	Mean	0%	SD	0%	

.....
*: Denominator is number of animals with tissues examined microscopically
#: Denominator is number of animals necropsied